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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,503	01/13/2006	Yasuhiro Kabu	284585US0PCT	8831
22850 7590 06/19/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.		EXAMINER		
1940 DUKE STREET			WEISZ, DAVID G	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
		1797		
			NOTIFICATION DATE	DELIVERY MODE
			06/19/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)			
	10/564,503	KABU ET AL.			
Office Action Summary	Examiner	Art Unit			
	DAVID WEISZ	1797			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10 Ma	arch 2009.				
·= ·	action is non-final.				
·—	, _				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-4 and 6-10</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4 and 6-10</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 13 January 2006 is/are:		to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents	~_ <i>-</i>				
2. Certified copies of the priority documents					
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

Application/Control Number: 10/564,503 Page 2

Art Unit: 1797

DETAILED ACTION

1. Acknowledgement is made of amendment filed 3/10/09. Upon entering the amendment, claims 1 and 6 are amended, claim 5 is canceled and claims 7-10 are new.

2. Claims 1-4 and 6-10 are pending and presented for examination.

Response to Amendment

3. In response to the amendment and the Applicants' remarks, the examiner modifies the grounds for rejection.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1-3 and 7-10** are rejected under 35 U.S.C. 102(e) as being anticipated by Hammon et al. (US 2004/0015012) (Hammon).

Hammon discloses a method for supplying reaction gases in a catalytic gasphase oxidation reaction wherein an organic material to be oxidized and oxygen are mixed and supplied to a reactor, wherein the feed rate of the gases are adjusted to fall outside an explosive range when a composition of the gas changes from one point to another [0001-0002]. Additionally, the reference discloses the material to be oxidized as isobutylene, methacrolein (page 8, claims, claim 2) or t-butanol [0011] (claims 1, 7-9). The reference additionally discloses that the method for supplying the gases includes adjusting the feed rate of oxygen to direct it away from an explosive range [0039-0041], and that the feed rate of the material to be oxidized is adjusted to reach a composition point while outside of an explosion range [0035-0036] (claim 2). The

Application/Control Number: 10/564,503 Page 3

Art Unit: 1797

reference additionally discloses that the feed rates of the reaction gases will be adjusted when certain composition points are reached to avoid an explosive range [0047-0052] (claims 3 and 10).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hammon.

Hammon discloses that a computer is controlled by a characteristic explosion diagram [0146]. It would have been obvious to one having ordinary skill in the art to display the information on a monitor so that one operating the system would be aware of the reaction progress (claims 4 and 6).

Application/Control Number: 10/564,503 Page 4

Art Unit: 1797

Response to Arguments

7. Applicant's arguments with respect to claims 1-4 and 6-10 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID WEISZ whose telephone number is (571)270-7073. The examiner can normally be reached on Monday - Thursday, 7:30 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571)272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

6/16/2009

/Yelena G. Gakh/ Primary Examiner, Art Unit 1797

/D. W./

Examiner, Art Unit 1797